

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Serial No. : To Be Assigned
(this is a divisional of 09/393,907 filed 03.10.1997 which is a continuation of 08/820,997 filed 03.20.1997 now U.S. Patent No. 5,869,740 which is a continuation of 08/208,626 filed 03.09.1994 now abandoned)

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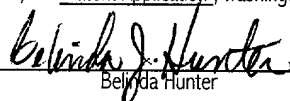
Title : A PROCESS FOR PRODUCING A CASING PROVIDING A SCREEN AGAINST ELECTROMAGNETIC RADIATION

Examiner : TALBOT, Brian K.

Group Art Unit : 1762

March 20, 2001

Box **Patent Application**
Assistant Commissioner for Patents
Washington, D.C. 20231

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 Belinda J. Hunter	

PRELIMINARY AMENDMENT

S I R :

Prior to substantive examination, kindly amend the present divisional patent application as follows:

IN THE SPECIFICATION:

Page 1, line 1, delete "S013-451.US".

Page 1, between lines 7 and 8 (just below the title), insert therefor the following as the first paragraph:

This is a divisional of U.S. Patent Application Serial No. 09/393,907 filed on March 10, 1997 which is a continuation of 08/820,997 filed March 20, 1997 now U.S. Patent No. 5,869,740 which is a continuation of 08/208,626 filed March 9, 1994 now abandoned.

IN THE CLAIMS:

Cancel present claims 2 to 21.

Insert therefor new claims 22 to 48.

22. (NEW) A method for the manufacture of a housing having two adjacent housing parts for accommodating electronic functional elements (2), comprising:

forming a screening seal (8; 8') to fill a gap between said two adjacent housing parts, said seal being made from an electrically conductive elastic plastic material, said electrically conductive elastic plastic material including a silicon polymer having thixotropic properties, said forming including ejecting said polymer in a pasty initial state with a pressure nozzle and passing said pressure nozzle over one of said housing portions that is to be sealed, so that said polymer is deposited directly on said one of said housing portions (3a), to form said screening seal with a predetermined profile (8; 8') without a molding tool; and allowing said screening seal to cure on said one of said housing portions wherein said screening seal adheres to a surface of said one of said portions in such a manner that the screening seal maintains its electrical and sealing characteristics even after repeated opening of the housing.

23. (NEW) The method according to claim 22, further comprising forming said screening seal by passing said nozzle several times at least over predetermined regions of said one of said portions to form said screening seal with said profile having a predetermined cross-section.

24. (NEW) The method according to claim 22, wherein during said passing said nozzle repeatedly over the predetermined regions, different elastic materials are applied, at least one of said different elastic materials being a conductive material.

25. (NEW) The method according to 22, wherein said forming of said screening seal is accomplished in several layers at least in some regions, each layer being formed directly on the layer lying beneath it and joined by adhesion thereto.

26. (NEW) The method according to claim 22, wherein said forming of said screening seal includes forming a first layer made of a material that is very elastic but is at most only slightly conductive and forming another layer made of another material which is only slightly elastic, but is very conductive.

27. (NEW) The method according to claim 22 further comprising forming said predetermined profile of several strands of material, each said strand having a lip-shaped cross-section.

28. (NEW) The method according to claim 22 further comprising forming said profile in several strands of material wherein said strands cooperate to form a hollow section.

29. (NEW) The method of claim 22 further comprising forming said screening seal in several layers wherein at least one of said of layers is formed of a non-conductive material.

30. (NEW) The method of claim 22 further comprising forming said screening seal with an outer shape having at least one printed circuit board.

31. (NEW) The method of claim 22 further comprising forming said screening seal in several layers, some layers which differ in at least one of compressibility, elasticity, flexibility and hardness.

32. (NEW) The method of claim 22, wherein said portions are mated in a tongue-and-groove arrangement further comprising forming said screening seal in parallel with said tongue-and-groove arrangement.

33. (NEW) The method of claim 22 further comprising forming said screening seal inward of said tongue-and-groove arrangement.

34. (NEW) A method for the manufacture of a housing having two adjacent housing parts, one of said housing parts including an electrical printed circuit board, comprising:
forming a screening seal (8; 8') to fill a gap between said two adjacent housing parts, said seal being made from an elastic and electrically conductive plastic material, said electrically conductive plastic material including a silicon polymer, said forming including ejecting said polymer in a pasty initial state with a pressure nozzle and passing said pressure nozzle over electrical printed circuit board that is to be sealed, so that said polymer is deposited directly on said electrical printed circuit board to form said screening seal with a predetermined profile (8; 8') without a molding tool; and allowing said screening seal to cure on said electrical printed circuit board wherein said screening seal adheres to a surface of said electrical printed circuit board in such a manner that the screening seal maintains its electrical and sealing characteristics even after repeated opening of the housing.

35. (NEW) The method according to claim 34, further comprising forming said screening seal by passing said nozzle several times at least over predetermined regions of said one of said portions to form said screening seal with said profile having a predetermined cross-section.

36. (NEW) The method according to claim 34, wherein during said passing said nozzle repeatedly over the predetermined regions, different elastic materials are applied, at least one of said different elastic materials being a conductive material.

37. (NEW) The method according to 34, wherein said forming of said screening seal is accomplished in several layers at least in some regions, each layer being formed directly on the layer lying beneath it and joined by adhesion thereto.

38. (NEW) The method according to claim 34, wherein said forming of said screening seal includes forming a first layer made of a material that is very elastic but is at most only slightly conductive and forming another layer made of another material which is only slightly elastic, but is very conductive.

39. (NEW) The method according to claim 34 further comprising forming said predetermined profile of several strands of material, each said strand having a lip-shaped cross-section.

40. (NEW) The method according to claim 34 further comprising forming said profile in several strands of material wherein said strands cooperate to form a hollow section.

41. (NEW) The method of claim 34 further comprising forming said screening seal in several layers wherein at least one of said of layers is formed of a non-conductive material.

42. (NEW) The method of claim 34 further comprising forming said screening seal with an outer shape having at least one printed circuit board.

43. (NEW) The method of claim 34 further comprising forming said screening seal in several layers, some layers which differ in at least one of compressibility, elasticity, flexibility and hardness.

44. (NEW) The method of claim 34, wherein said portions are mated in a tongue-and-groove arrangement further comprising forming said screening seal in parallel with said tongue-and-groove arrangement.

45. (NEW) The method of claim 34 further comprising forming said screening seal inward of said tongue-and-groove arrangement.

46. (NEW) An electronic housing for accommodating electronic parts, said housing comprising two adjacent parts, and a screening seal formed between said adjacent parts, wherein said screening seal is formed to fill a gap between said two adjacent housing parts, said seal being made from an electrically conductive elastic plastic material, said electrically conductive elastic plastic material including a silicon polymer that is applied at ambient temperature, said forming including ejecting said polymer in a pasty initial state with a pressure nozzle and passing said pressure nozzle over one of said housing portions that is to be sealed, so that said polymer is deposited directly on said one of said housing portions (3a), to form

said screening seal with a predetermined profile (8; 8') without a molding tool; and allowing said screening seal to cure on said one of said housing portions wherein said screening seal adheres to a surface of said one of said portions in such a manner that the screening seal maintains its electrical and sealing characteristics even after repeated opening of the housing.


47. (NEW) The housing of claim 46, wherein one of said housing parts is an interior wall.

48. (NEW) The housing of claim 47, wherein said interior wall has a width and said polymer is formed into a bead on said interior wall approximately equal to said width.

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Respectfully submitted,

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